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MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

Petchpud et al.

Appl. No.: 10/719,770 Atty Docket: MGENE.016A

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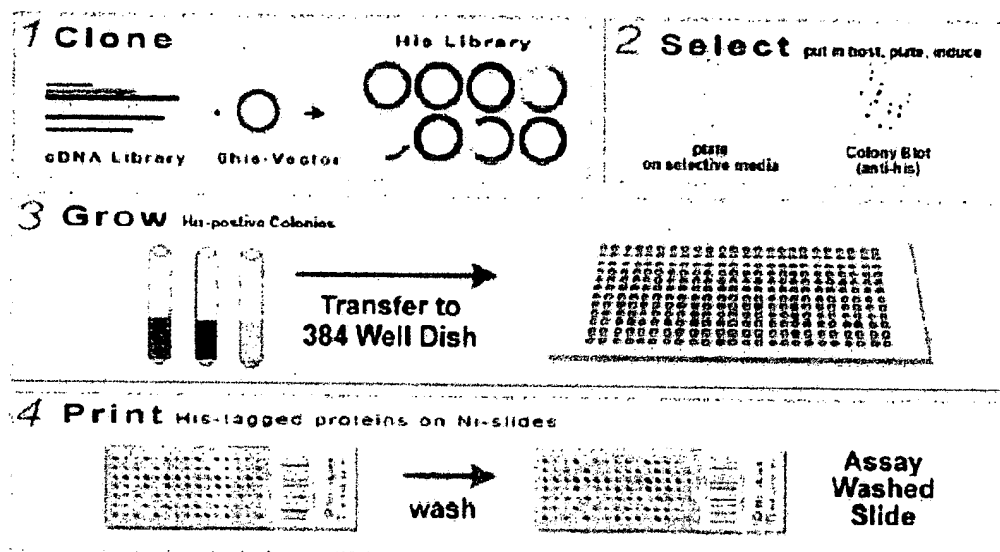


FIG. 1

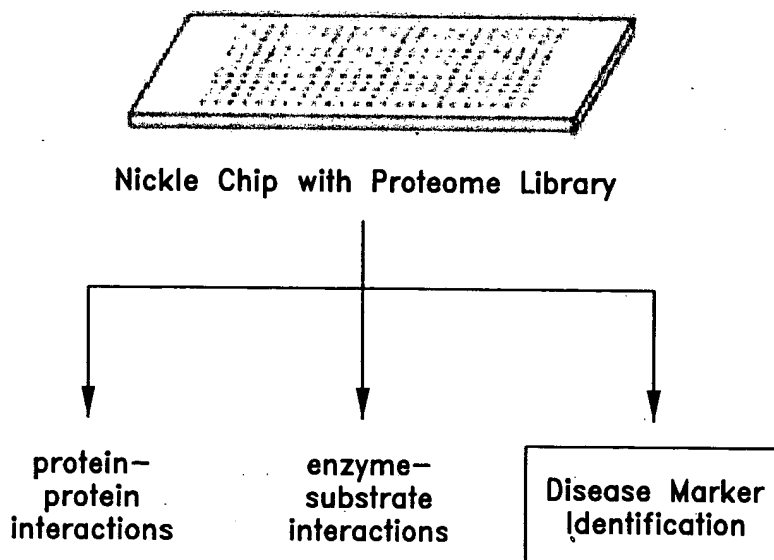


FIG. 3

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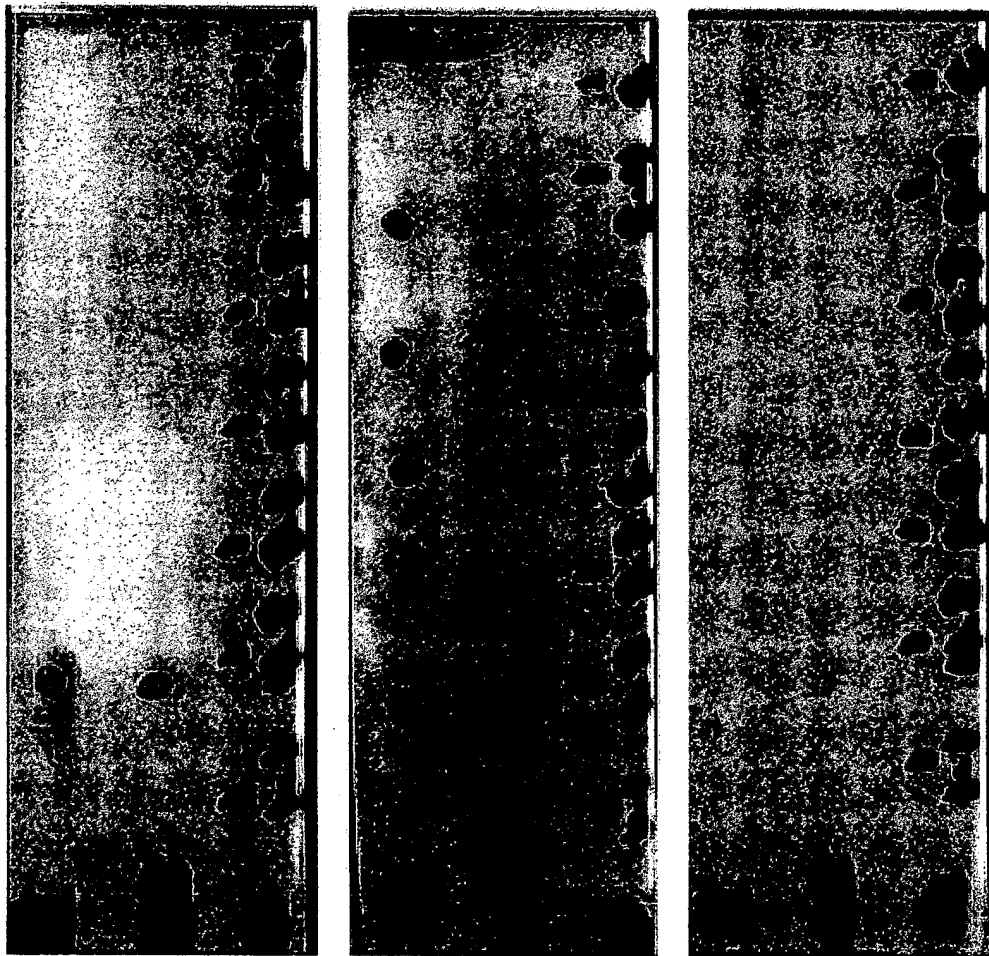
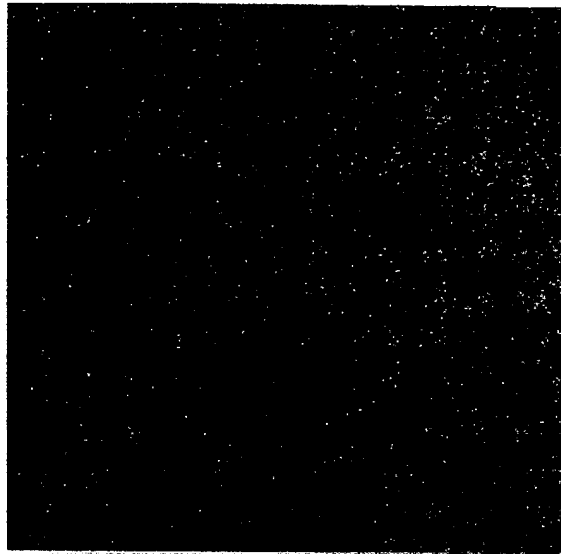
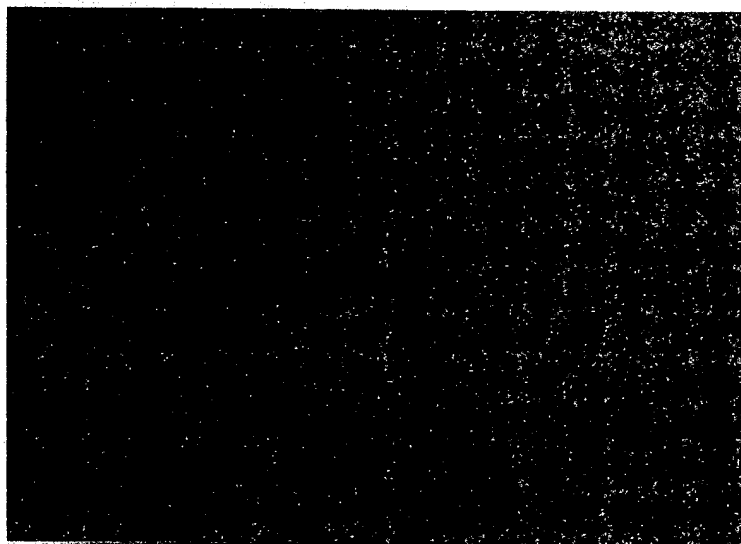


FIG. 2

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Control
1:500



Rheumatoid
Arthritis
1:500

FIG. 4

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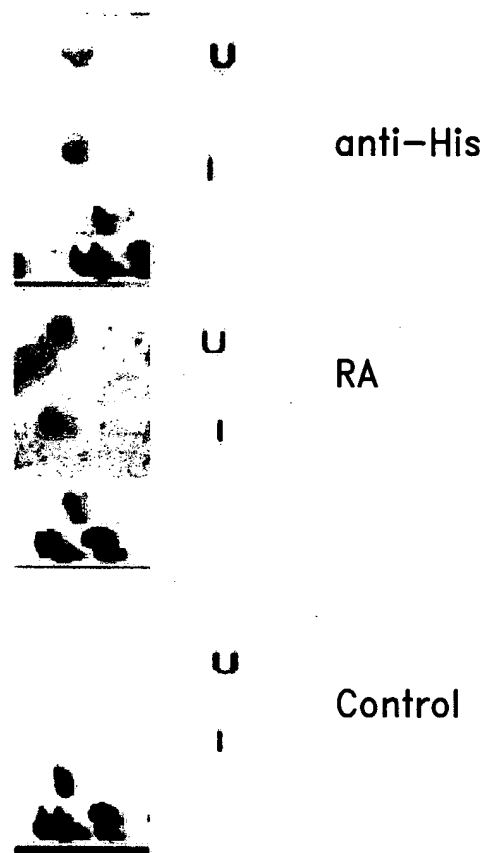


FIG. 5

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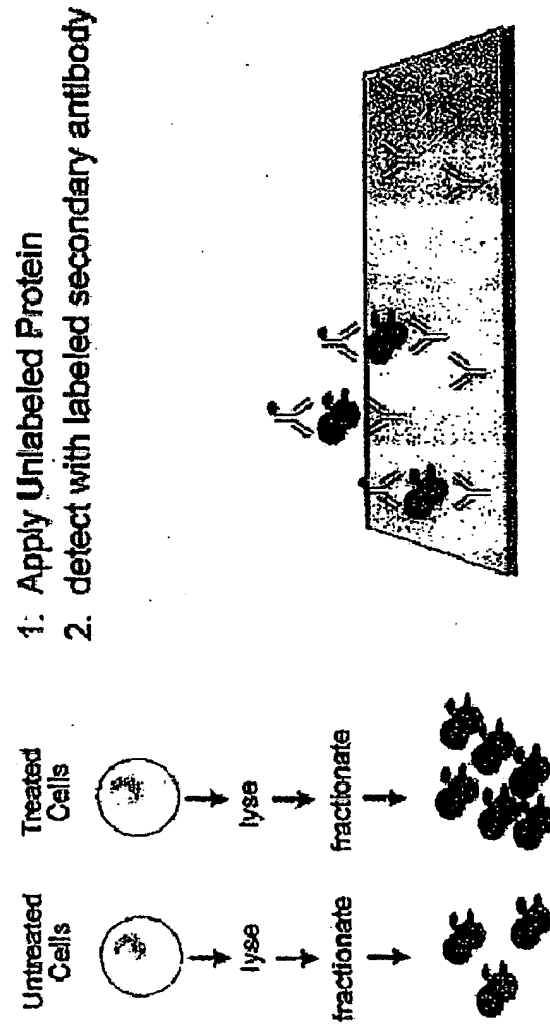


FIG. 6A

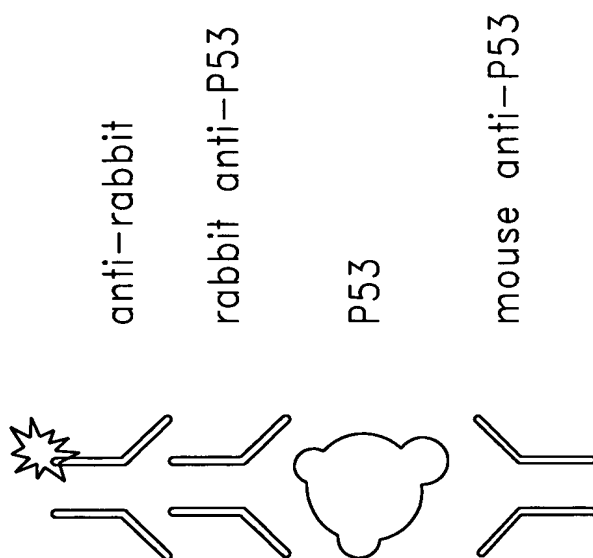


FIG. 6B

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Gene — P53 Capture Assay

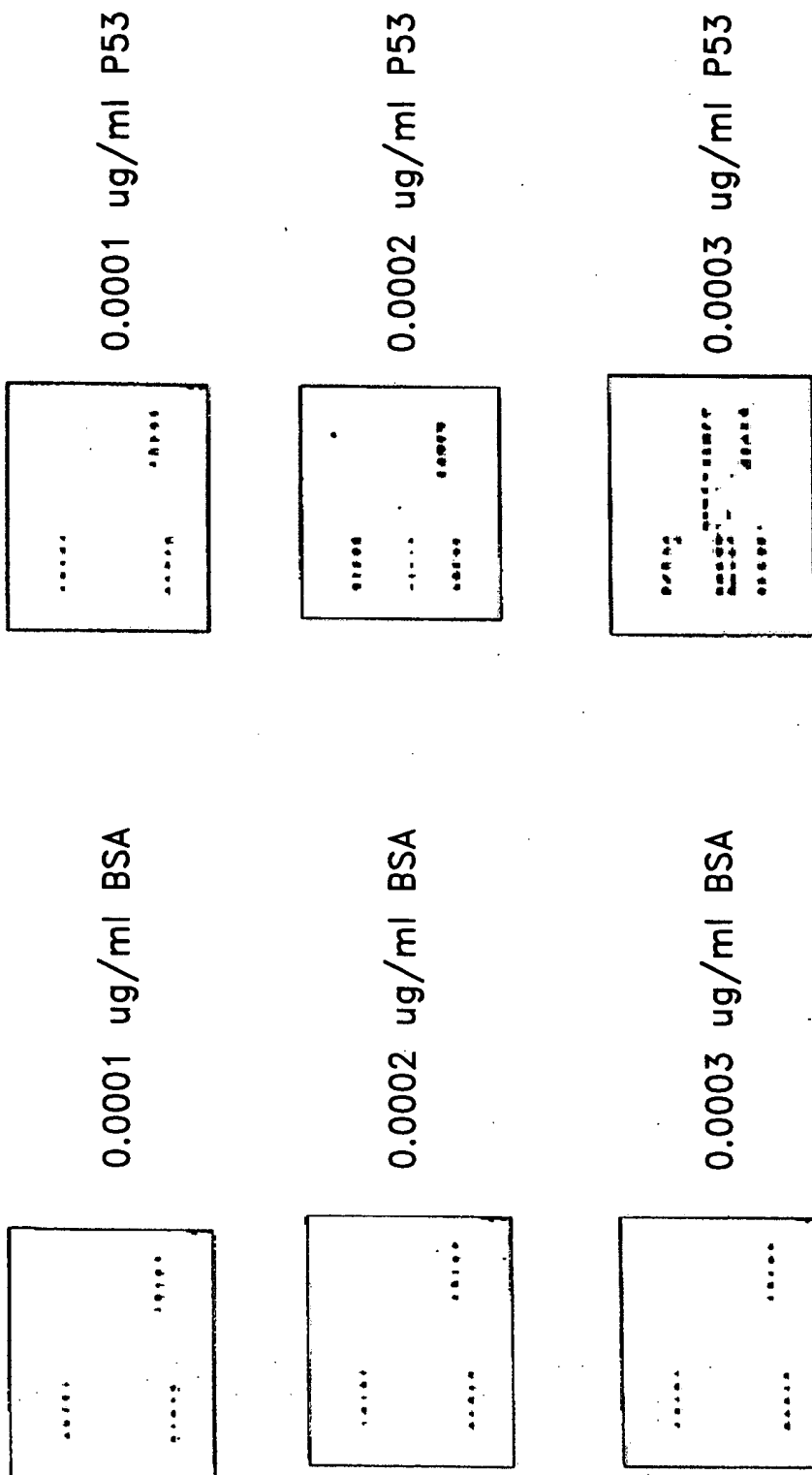
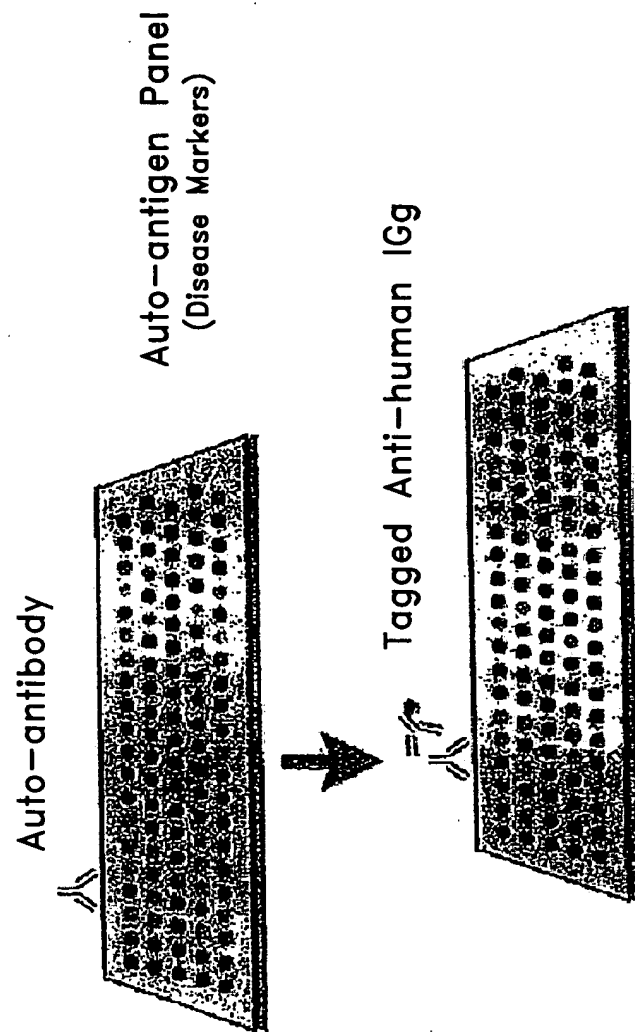


FIG. 6C

FIG. 7A

Example 2:
Western Blot Type Assay



Experiment in Progress: Identify Autoimmune disease specific profiles based on hundreds—thousands of antigens

Autoimmune Disease Assay Antigens

- | | | |
|--------------------------------|--------------------------------------|------------------------------|
| • SSB | • Apolipoprotein H | • Brain fraction 1 |
| • Sm | • Sci-70 | • Brain Fraction 16 |
| • Smith | • DNA topoisomerase | • Thymus fraction 15 |
| • pANCA | • Sm/RNP | • Thymus fraction 16 |
| • myeloperoxidase | • Scl-70 | • Lymph fraction 6 |
| | • Mitochondial Antigen | • Lymph fraction 16 |
| | • Plasmid DNA | • Spleen fraction 13 |
| neutrophil cytoplasmic antigen | • proliferating Cell nuclear antigen | • Kidney fraction 15 |
| • | • SSA | • Thymus Fraction 16 |
| | • Clq | • Lymph Fraction 6 |
| cANCA | • SRC | • Lymph Fraction 16 |
| • proteinase 3 | • Smith/RNP complex antigen | • Spleen Fraction 13 |
| • Jo-1 | • Whole Histone | • Kidney Fraction 15 |
| • histidyl tRNA synthetase | • Histone F2b | |
| • ApoH | • Histone F2a2 | |
| | • Histone F3 and F2a1 | |
| | • Histone F1 | |
| | | RA, Kidney cDNA |
| | | Library recombinant proteins |

FIG. 7B

MICROARRAY BASED ANALYSIS OF RHEUMATOID ARTHRITIS MARKERS

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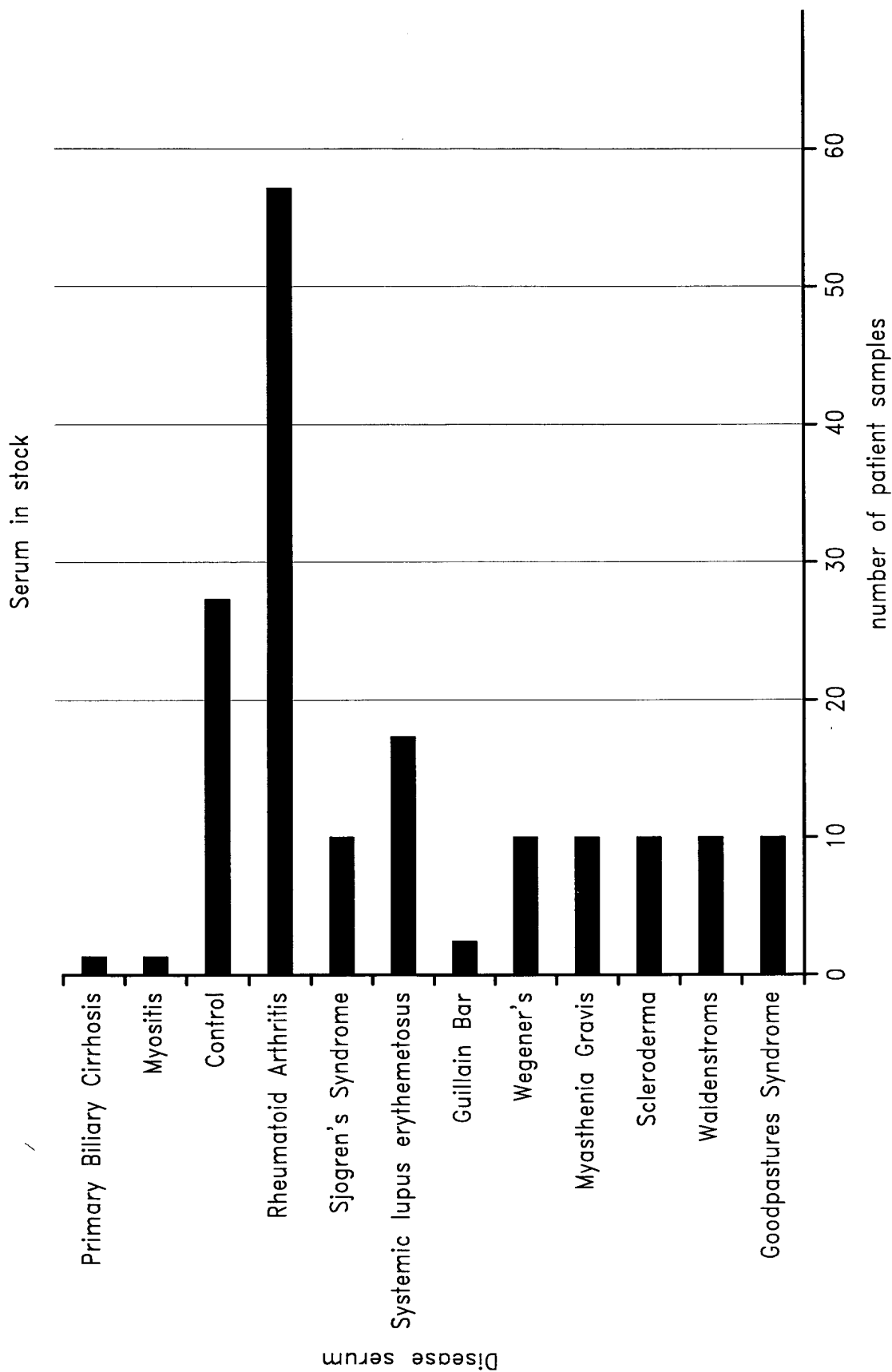


FIG. 7C

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Lupus Titration

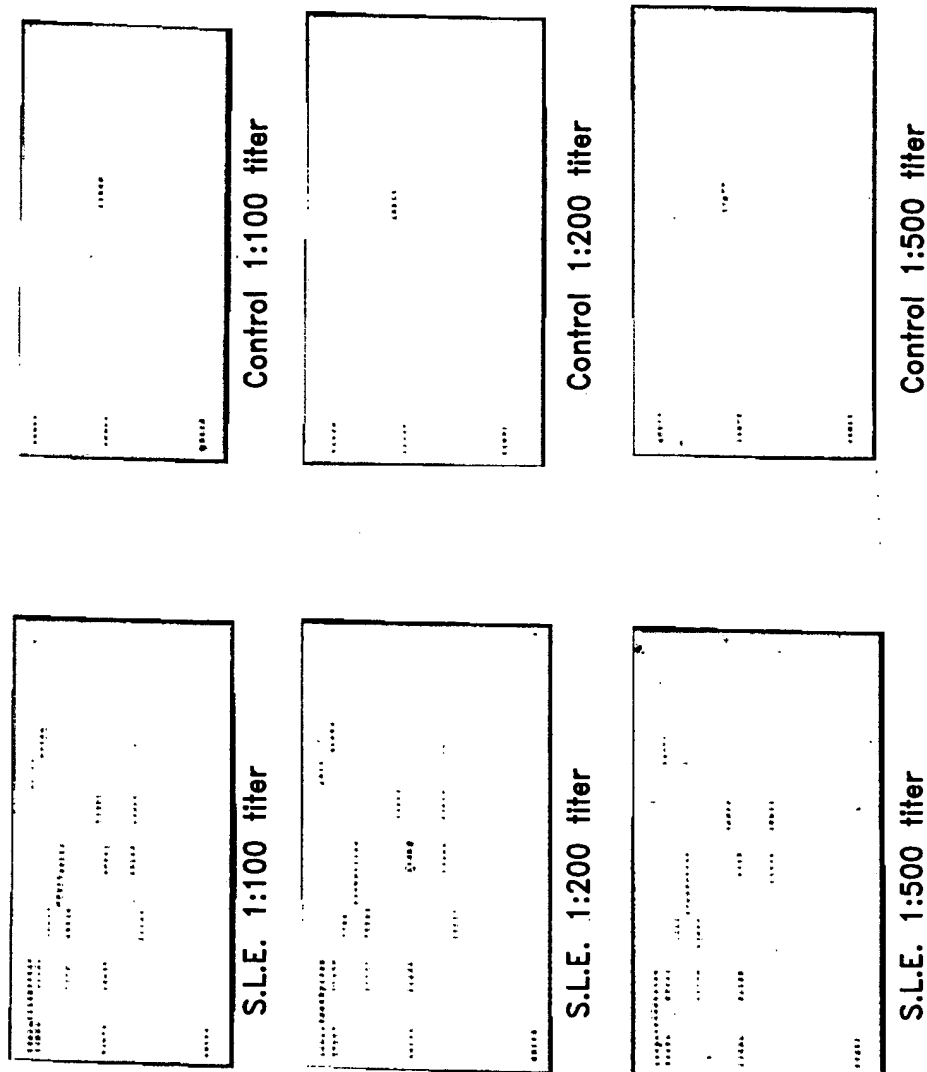
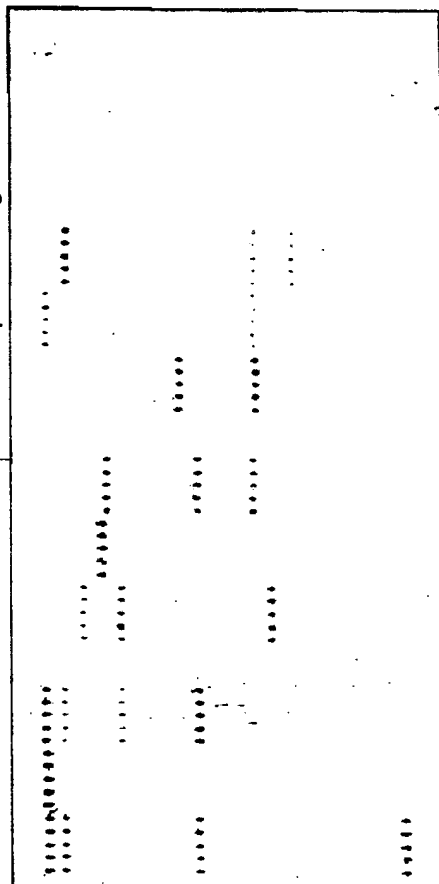


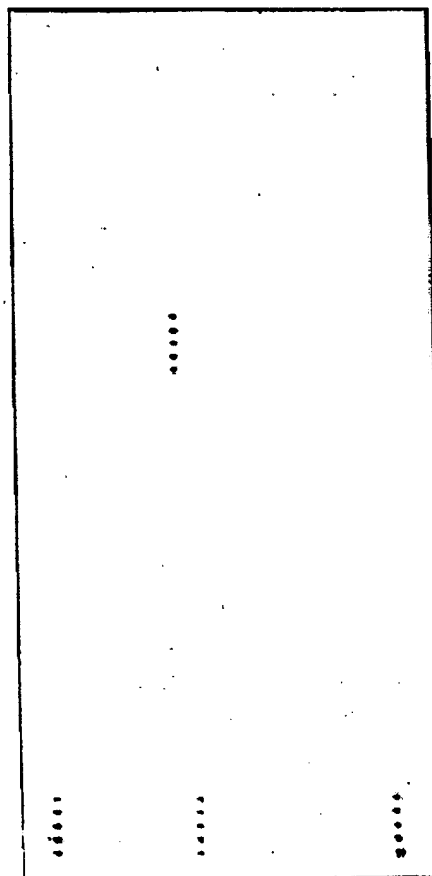
FIG. 7D

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S.L.E. 1:100 titer with corresponding markers



Control 1:100 titer



A=Secondary antibody
B=SSA (Sjogren syndrome type A antigen)
C=SSB (Sjogren syndrome type B antigen)
D=SRC (Smith/ribonucleoprotein Complex)
E=MIT (mitochondrial antigen)
F=RAG (recombination activating Protein)
G=whole histone
I=F2A2
J=H2b

FIG. 7E

Sjogrens titration

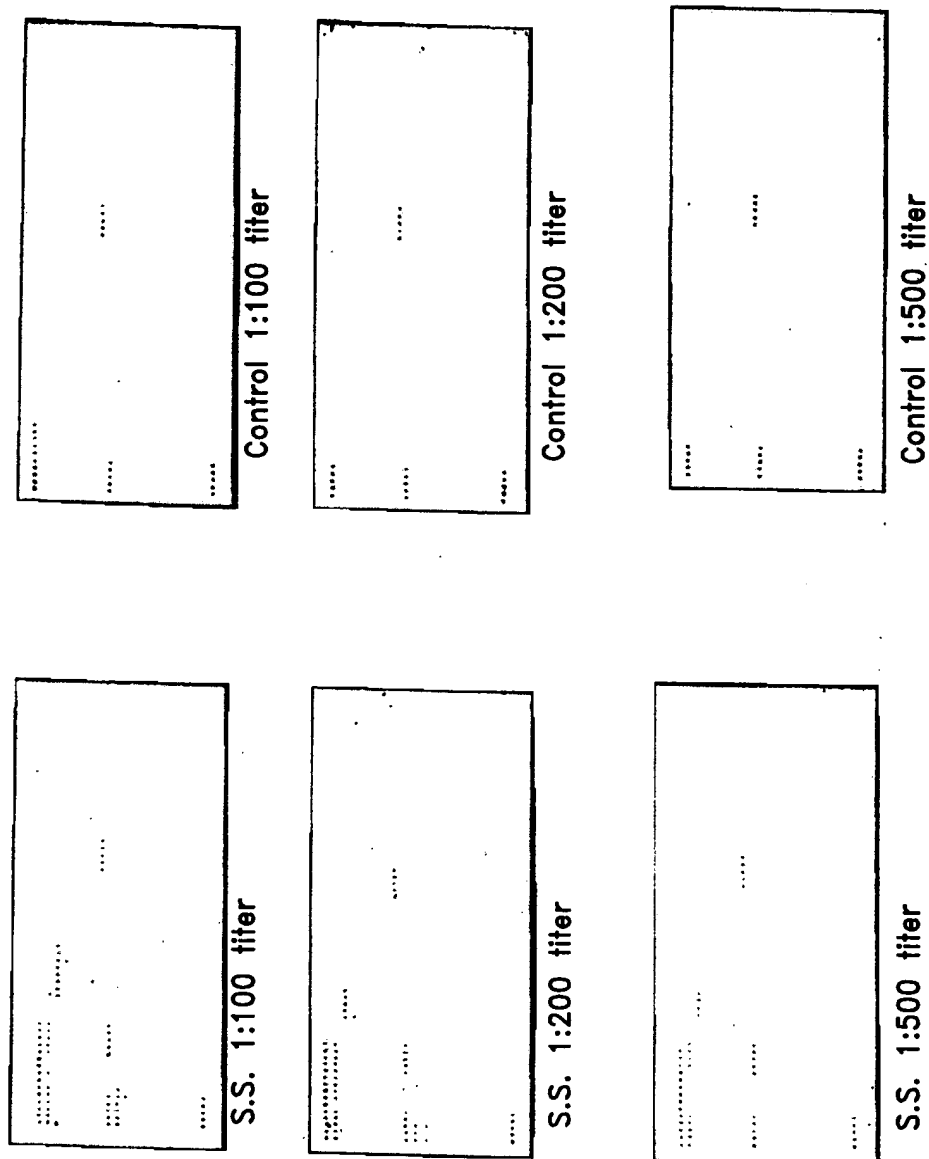


FIG. 7F

